未来在现实的第九层

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未来在现实的第几层

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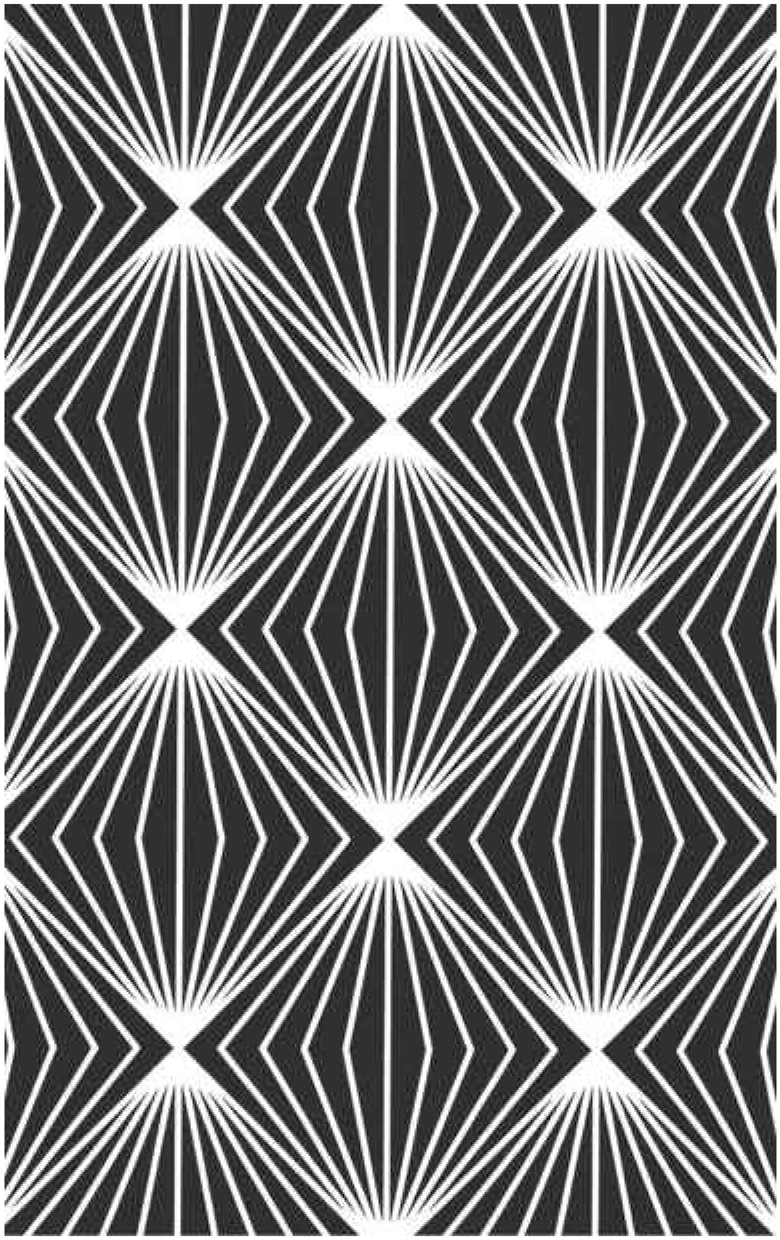
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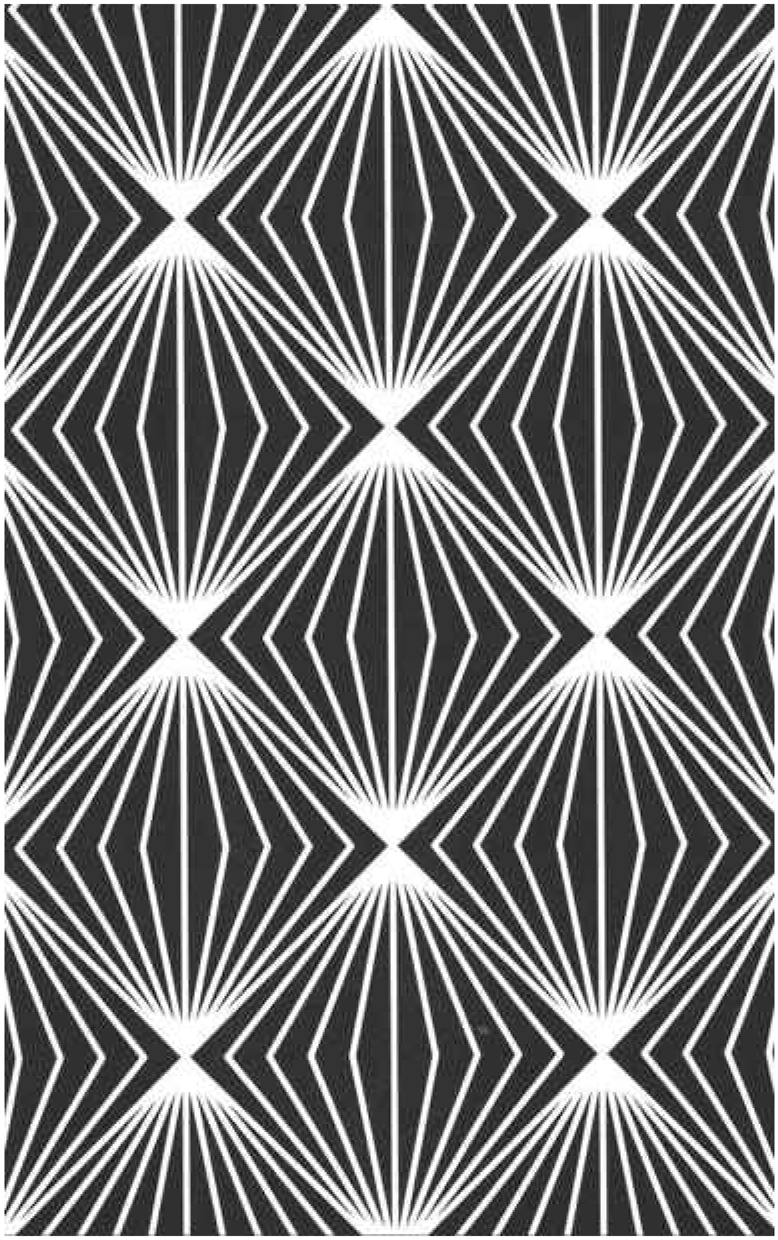
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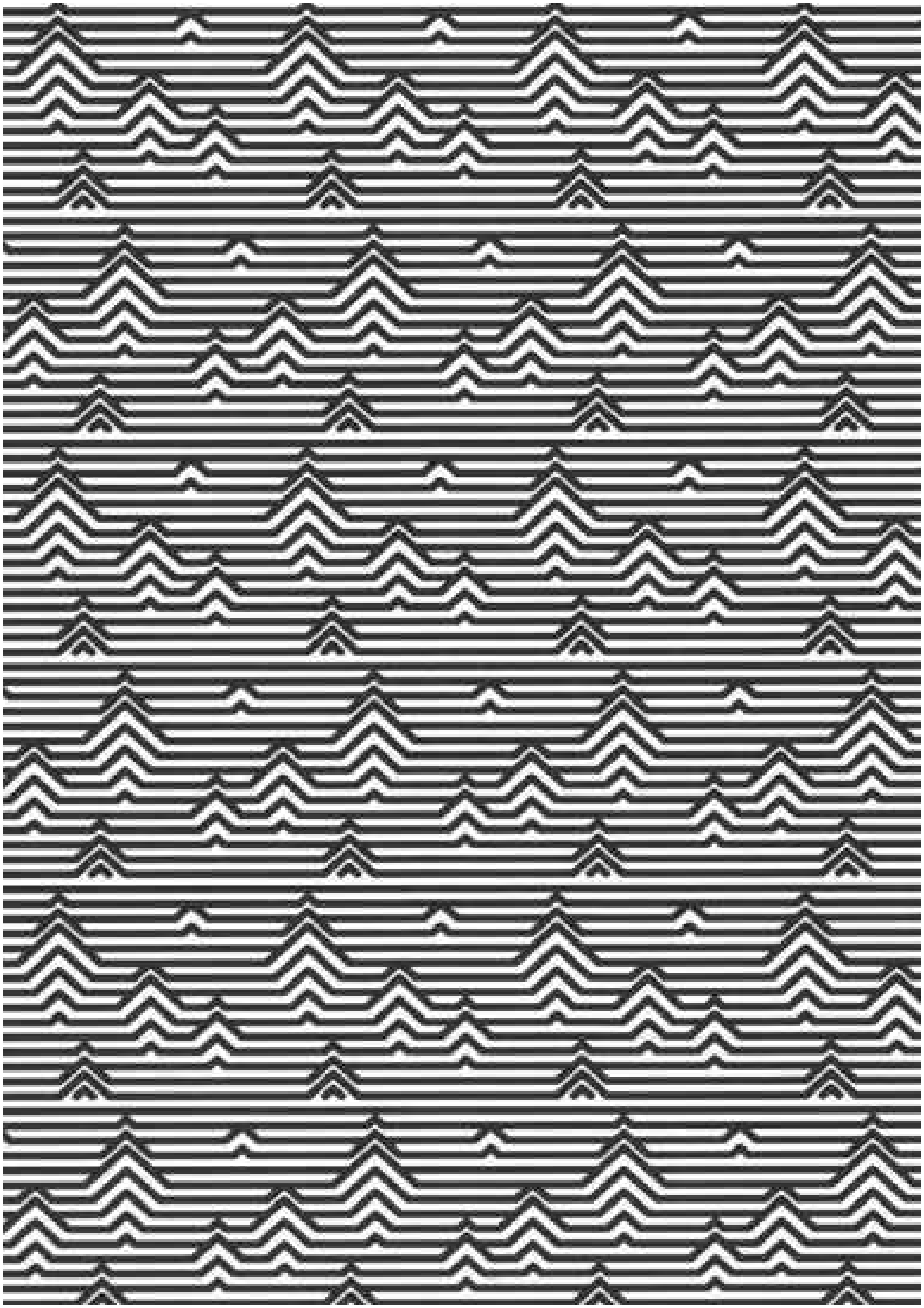
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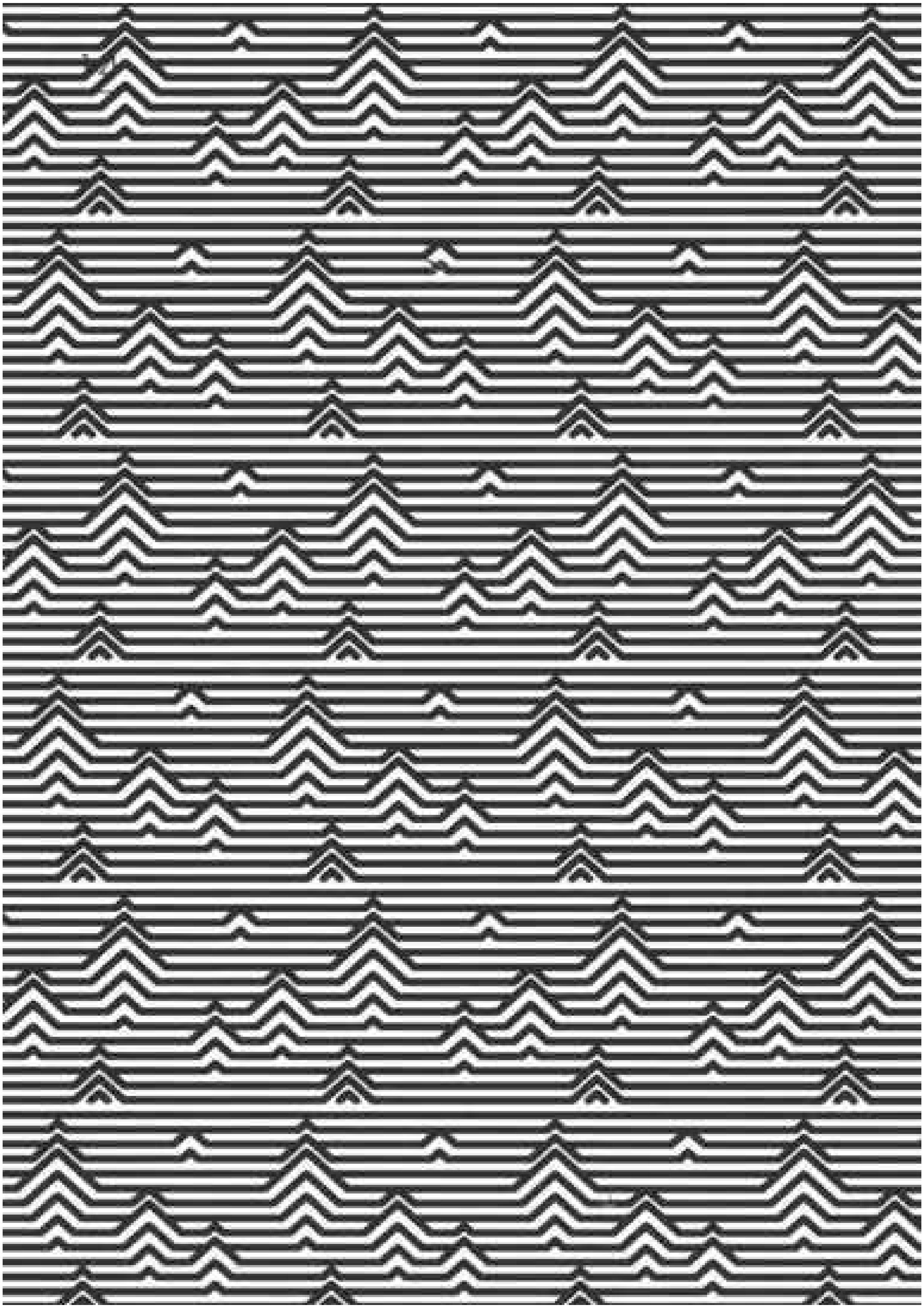
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2009[illegible]12[illegible]·[illegible]Eric Schmidt[illegible]

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[illegible]2009[illegible]“[illegible]”[illegible]

[illegible]“[illegible]”[illegible]RID,Retinal Imaging Display[illegible]

[illegible]CRT,Cathode Ray Tube[illegible]RID[illegible]60[illegible]800×600[illegible]14[illegible]CRT[illegible]——[illegible]20[illegible]

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[illegible]OLED,Organic Light Emitting Diode[illegible]

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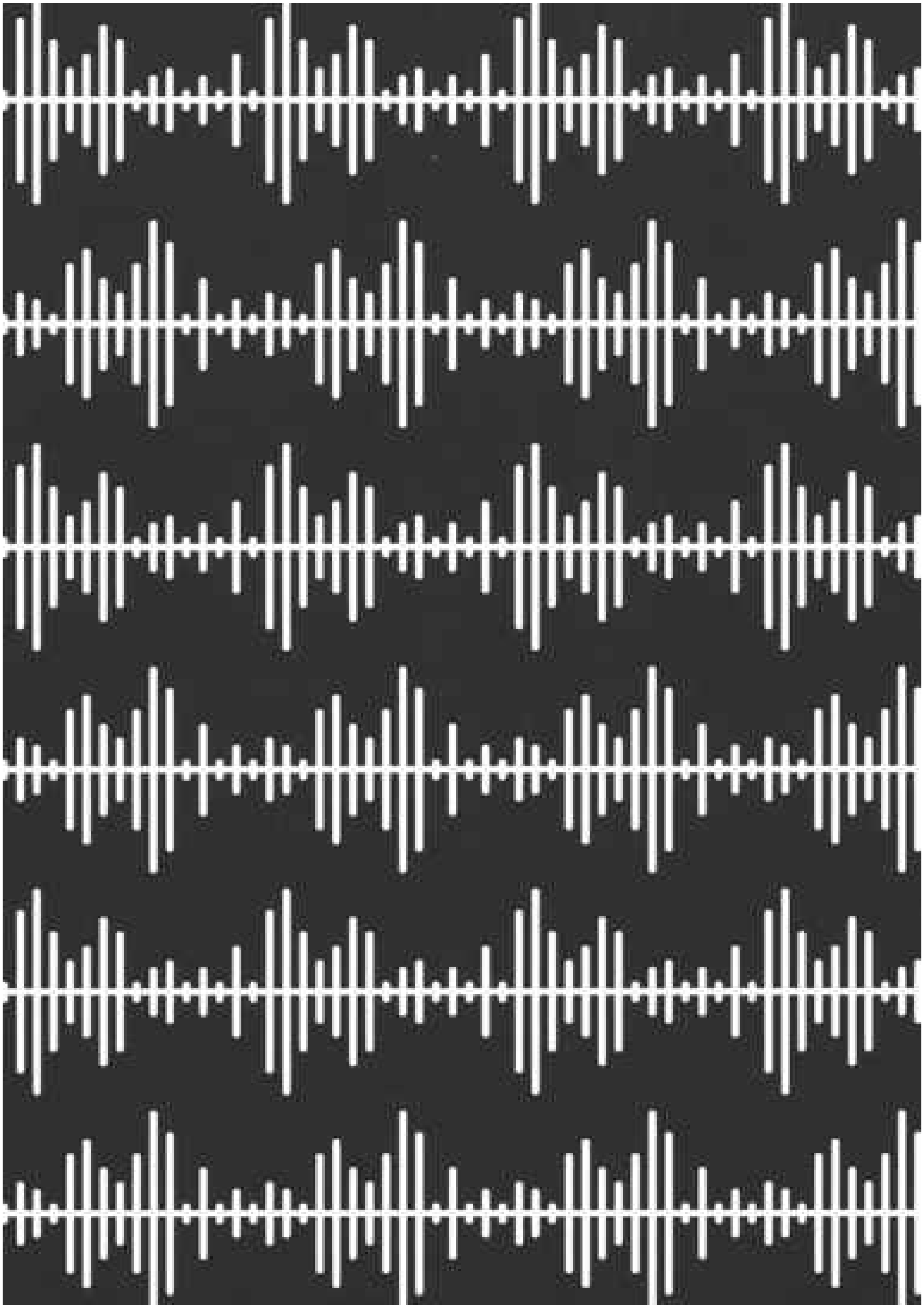
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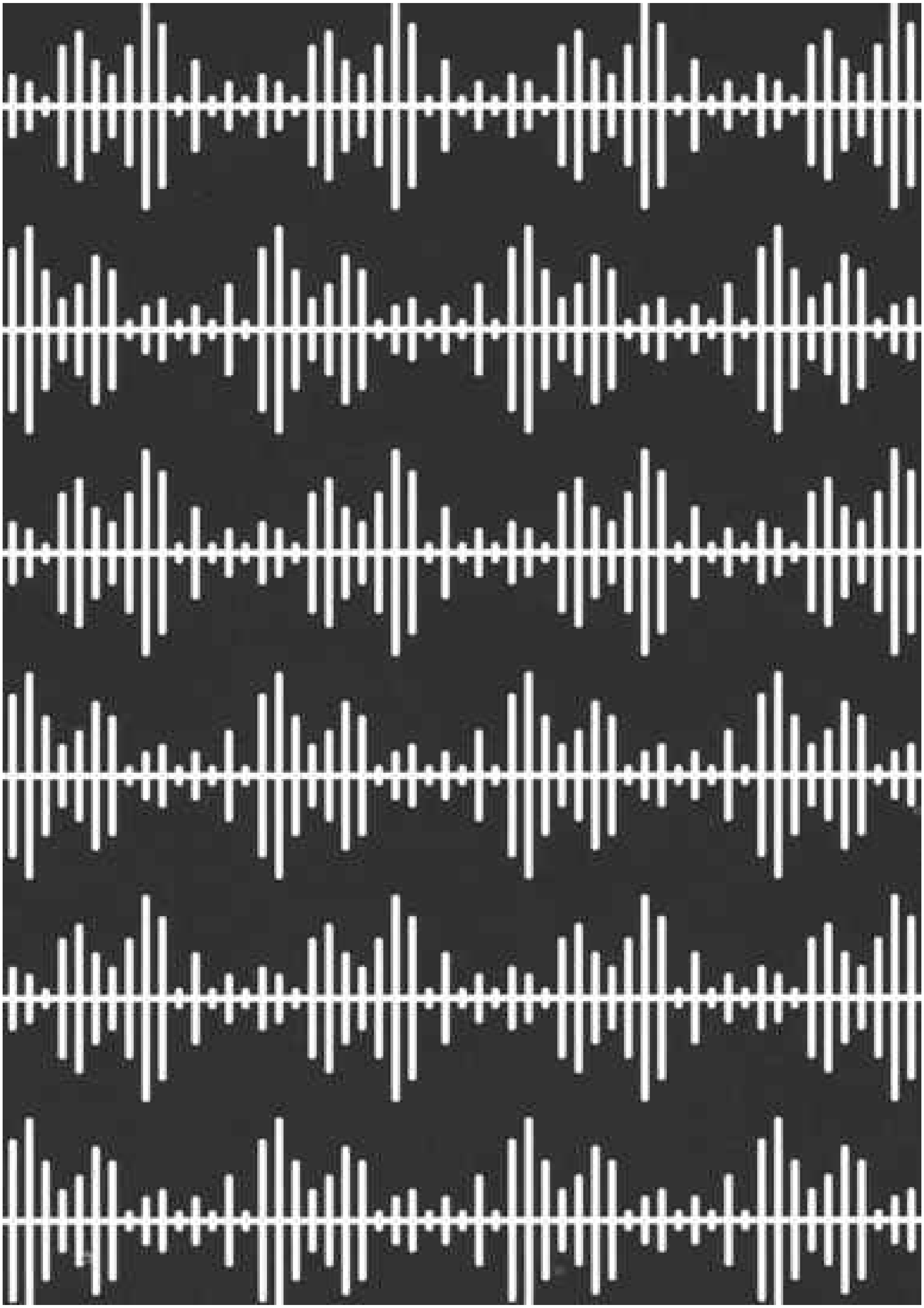
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[illegible]2000[illegible]Kilocalorie[illegible]3500[illegible]2500[illegible]2500[illegible]25[illegible]——[illegible]50[illegible]

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[illegible]“Green”[illegible]——[illegible]“Green”[illegible]

[illegible]“WATT”[illegible]30%[illegible]——[illegible]——[illegible]

[illegible]2007[illegible]·[illegible]James Graham[illegible]·[illegible]Thaddeus Jusczyk[illegible]“[illegible]”[illegible]Crowd Farm[illegible]

[illegible]“[illegible]”[illegible]

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[illegible]·[illegible]Martin Cooper[illegible]15[illegible]20[illegible]

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[illegible]·[illegible]Steve Beeby[illegible]“[illegible]”

[illegible]“[illegible]”[illegible]

[illegible]2002[illegible]2004[illegible]8[illegible]——[illegible]——[illegible]

[illegible]·[illegible]Adrian Cheok[illegible]

2009[illegible]2[illegible]“[illegible]”[illegible]2008[illegible]

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2009[illegible]·[illegible]——[illegible]

[illegible]“[illegible]”[illegible]90[illegible]16[illegible]

[illegible]Powered Exoskeleton[illegible]

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[illegible]——[illegible]EVA[illegible]

2010[illegible]8[illegible]HAL[illegible]Hybrid Assistive Limb[illegible]“[illegible]”[illegible]2004[illegible]“Cyberdyne”[illegible]HAL[illegible]

HAL[illegible]——[illegible]1000[illegible]

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[illegible]1960[illegible]1978[illegible]Sarcos[illegible]XOS[illegible]XOS[illegible]——[illegible]

[illegible]40[illegible]·[illegible]HULC[illegible]HULC[illegible]

[illegible]Exmovere Holdings[illegible]Chariot[illegible]Segway[illegible]

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1994[illegible]6[illegible]

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[illegible]·[illegible]Klaus Lackner[illegible]18[illegible]·[illegible]Christopher Wendt[illegible]“[illegible]”

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[illegible]René Descartes[illegible]20[illegible]40[illegible]·[illegible]John von Noumann[illegible]“[illegible]”[illegible]

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[illegible]1953[illegible]·[illegible]James Watson[illegible]·[illegible]Francis Crick[illegible]DNA[illegible]·[illegible]·[illegible]——[illegible]

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[illegible]·[illegible]2050[illegible]

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2008[illegible]7[illegible]·[illegible]Adrian Bowyer[illegible]·[illegible]Vik Oliver[illegible]“RepRap”[illegible]——[illegible]

RepRap[illegible]

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RepRap[illegible]RepRap[illegible]RepRap[illegible]

[illegible]RepRap[illegible]

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1959[illegible]·[illegible]Richard PhillipsFeynman[illegible]“[illegible]”[illegible]

[illegible]1991[illegible]IBM[illegible]35[illegible]“IBM”[illegible]

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[illegible]Artificial Solutions[illegible]Elbot[illegible]Loebner[illegible]

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1748[illegible]·[illegible]Julien Offroy De La Mettrie[illegible]“[illegible]”[illegible][illegible]“[illegible]”[illegible]

[illegible]·[illegible]“[illegible]”[illegible]

[illegible]·[illegible]Mary Shelley[illegible]·[illegible]Ada Byron[illegible]·[illegible]Charles Babbage[illegible]“[illegible]”[illegible]

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[illegible]·[illegible]“[illegible]”[illegible]

[illegible]1956[illegible]“[illegible]”[illegible]AI,Artificial Intelligence[illegible]

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[illegible]1955[illegible]·[illegible]Allen Newell[illegible]·[illegible]Herbert Alexander Simon[illegible]“[illegible]”[illegible]“[illegible]”[illegible]·[illegible]John Cliff Shaw[illegible]“[illegible]”[illegible]

[illegible]“[illegible]”[illegible]1997[illegible]·[illegible]Garry Kasparov[illegible]“[illegible]”[illegible]

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“[illegible]”[illegible]·[illegible]Marvin Minsky[illegible]1954[illegible]

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2005[illegible]IBM[illegible]“[illegible]”[illegible]2015[illegible]FACETS[illegible]384[illegible]10[illegible]20[illegible]5000[illegible]20[illegible]

[illegible]“[illegible]”[illegible]

[illegible]

1951[illegible]·[illegible]·[illegible]William Grey Walter[illegible]40[illegible]·[illegible]Rodney Brooks[illegible]6[illegible]

[illegible]“[illegible]”[illegible]20[illegible]40[illegible]·[illegible]Norbert Wiener[illegible]1948[illegible]

[illegible]“iRobot”[illegible]“Roomba”[illegible]“[illegible]”[illegible]

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FACETS[illegible]“[illegible]”[illegible]

[illegible]Douglas Richard Hofstadter[illegible]“[illegible]

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[illegible]·[illegible]Arthur Charles Clarke[illegible]2001[illegible]Borman[illegible]9000[illegible]HAL9000[illegible]9000[illegible]4[illegible]

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[illegible]Sounds Like Bach[illegible]“[illegible]‘[illegible]’[illegible]‘[illegible]’[illegible]——[illegible]

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[illegible]Sounds Like Bach[illegible]Jigod Jiang[illegible]

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[illegible]·[illegible]Stephen William Hawking[illegible]

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[illegible]1924[illegible]7[illegible]·[illegible]Hans Berger[illegible]5[illegible]EEG,electroencephalogram[illegible]1000[illegible]α[illegible]β[illegible]

[illegible]δ[illegible]θ[illegible]γ[illegible]μ[illegible]

[illegible]EEG[illegible]

20[illegible]70[illegible]DARPA[illegible]EEG[illegible]——[illegible]

[illegible]BCI[illegible]1978[illegible]

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[illegible]Jean Baptiste Joseph Fourier[illegible]

[illegible]140[illegible]1000[illegible]

[illegible]EEG[illegible]300
[illegible]P300[illegible]

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[illegible]fMRI,functional Magnetic Resonance Imaging[illegible]
[illegible]——[illegible]2006[illegible]

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2004[illegible]6[illegible]“[illegible]”[illegible]Cyberkinetics[illegible]24[illegible]·[illegible]Matt Nagle[illegible]“[illegible]”[illegible]BrainGate[illegible]“[illegible]”[illegible]9[illegible]“[illegible]”[illegible]96[illegible]1000[illegible]

2008[illegible]

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[illegible]10[illegible]

2009[illegible]4[illegible]·[illegible]Adam Wilson[illegible]“[illegible]”[illegible]10[illegible]EEG[illegible]16[illegible]

[illegible]

[illegible]

[illegible]2008[illegible]“[illegible]”[illegible]·[illegible]Oscar Pistorius[illegible]400[illegible]“[illegible]”[illegible]

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[illegible]·[illegible]William Gibson[illegible]——[illegible]·[illegible]

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2009[illegible]12[illegible]“[illegible]”[illegible]“KOBIAN”[illegible]——[illegible]——[illegible]

[illegible]Roomba[illegible]“[illegible]”[illegible]——[illegible]

[illegible]R2-D2[illegible]

[illegible]Steven Allan Spielberg[illegible]·[illegible]Jude Law[illegible]

[illegible]Masahiro Mori[illegible]20[illegible]70[illegible]“[illegible]”[illegible]Uncanny Valley[illegible]

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Internet of Things “ ” IBM CEO Louis Gerstner 15 30

“ ”

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Radio Frequency Identification RFID RFID RFID tag

RFID RFID ——RFID

RFID[illegible]1[illegible]1[illegible]RFID[illegible]RFID[illegible]

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[illegible]2009[illegible]11[illegible]20[illegible]RFID[illegible]·[illegible]Peter Friess[illegible]2015[illegible]2020[illegible]

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[illegible]“[illegible]”[illegible]·[illegible]Joshua Smith[illegible]

[illegible]RFID[illegible]CRFID[illegible]“[illegible]”[illegible]RFID[illegible]18[illegible]CRFID[illegible]

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2009 12 2008
34GB
Gartner 40%

Portable Modular Data Centre

——15

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IT
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4400
2009 3 190 100
17% 15%——

PUE,Power Usage
Effectiveness PUE
1 PUE 2.5 3
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Rackable Systems□□□□□□□□□□□□□□□□□□□□□□□□□□□□20□□□□
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20[illegible]60[illegible]·[illegible]Stanley Milgram[illegible]“[illegible]”[illegible]——[illegible]Facebook[illegible]1000[illegible]

1998[illegible]·[illegible]Duncan Watts[illegible]·[illegible]Steve Strogatz[illegible]“[illegible]”[illegible]“[illegible]”[illegible]

[illegible]——[illegible]

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[illegible]“[illegible]”[illegible]2008[illegible]1[illegible]·[illegible]Brad Williams[illegible]

[illegible]·[illegible]Solomon Shereshevskii[illegible]“[illegible]”A·J[illegible]“[illegible]”——[illegible]

[illegible]·[illegible]Daniel L.Schacter[illegible]

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[illegible]——[illegible]·[illegible]-[illegible]Viktor Mayer-Schönberger[illegible]2009[illegible]

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[illegible]·[illegible]Gordon Bell[illegible]·[illegible]Jim Gemmell[illegible]——[illegible]——[illegible]

[illegible]·[illegible]Robin McLaurim Williams[illegible]

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“CES 2010” IT

Web 2.0 “”

2005 · Chris Anderson —— “”

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IMDB IMDB

· Vassilis Kostakos IMDB BookCrossings “”

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[illegible]——[illegible]LD[illegible]CD[illegible]DVD[illegible]2009[illegible]——[illegible]2Tbps[illegible]

[illegible]——[illegible]500Mbps[illegible]

[illegible]20[illegible]70[illegible]IBM[illegible]——[illegible]3D[illegible]

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[illegible]Kbps[illegible]

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LED[illegible]1998[illegible]LED[illegible]LED[illegible]LED[illegible]

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LED[illegible]——[illegible]

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[illegible]“[illegible]”[illegible]1788[illegible]·[illegible]·[illegible]·[illegible]Johann Christoph Andreas Mayer[illegible]1897[illegible]·[illegible]·[illegible]Sir Edward Richard Henry[illegible]

[illegible]20[illegible]“[illegible]”[illegible]20[illegible]60[illegible]AFIS,Automated Fingerprint Identification System[illegible]20[illegible]80[illegible]

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[illegible]FRR,False Reiection Rate[illegible]FAR,False Accept Rate[illegible]ERR,Error Registration Rate[illegible]FRR[illegible]FAR[illegible]1%[illegible]

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[illegible]“[illegible]”[illegible]

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1983[illegible]·[illegible]Fred Cohen[illegible]5[illegible]11[illegible]10[illegible]“[illegible]”[illegible]Len Adleman[illegible]

[illegible]1982[illegible]1982[illegible]Mt.Lebanon[illegible]·[illegible]Richard Skrenta[illegible]Ⅱ[illegible]“Elk Cloner”[illegible]“Elk Cloner”[illegible]“Elk Cloner”[illegible]50[illegible]

Elk Cloner:The program with a personality

It will get on all your disks

It will infiltrate your chips

Yes it's Cloner!

It will stick to you like glue

It will modify ram too

Send in the Cloner!

Elk Cloner[illegible]

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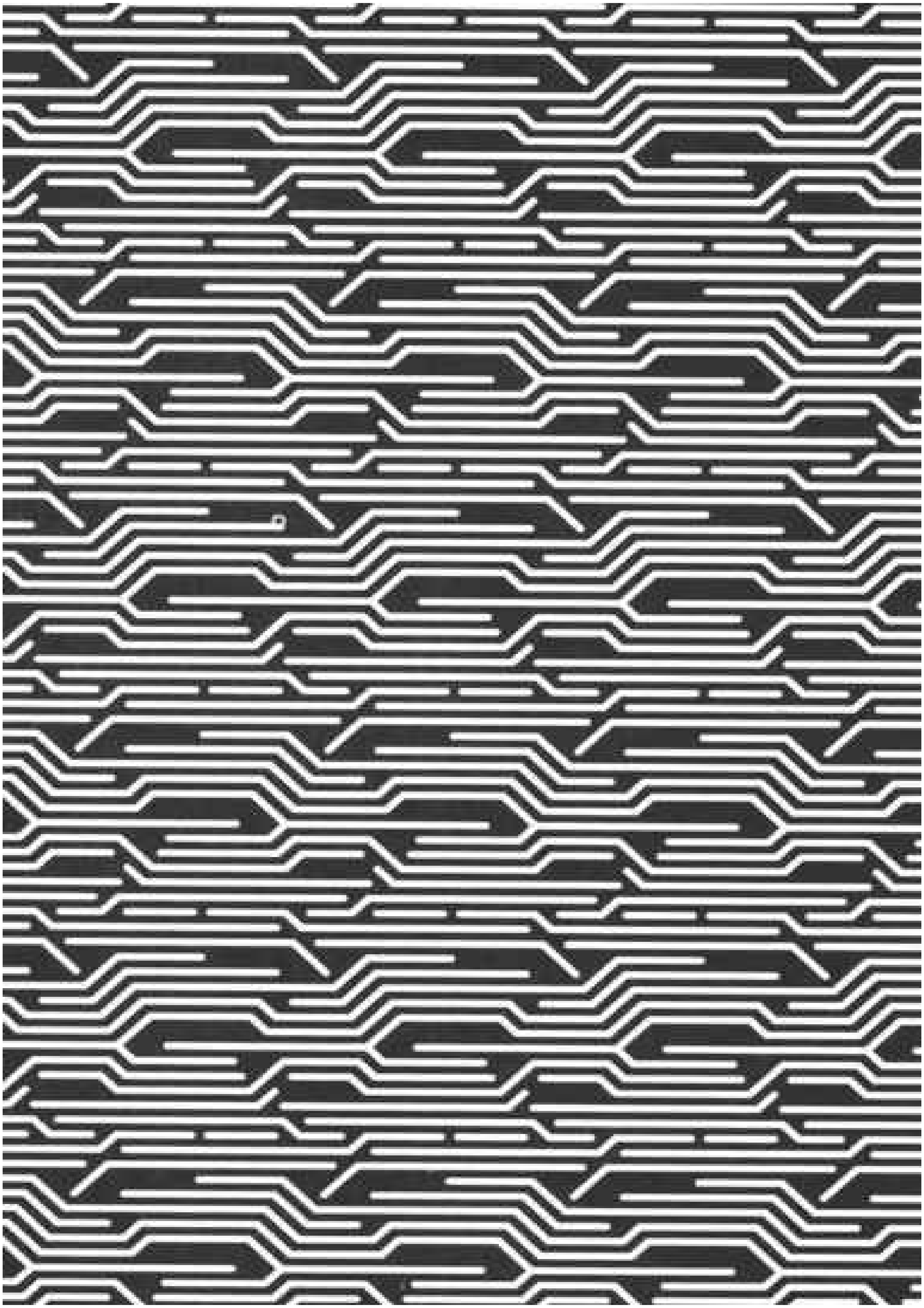
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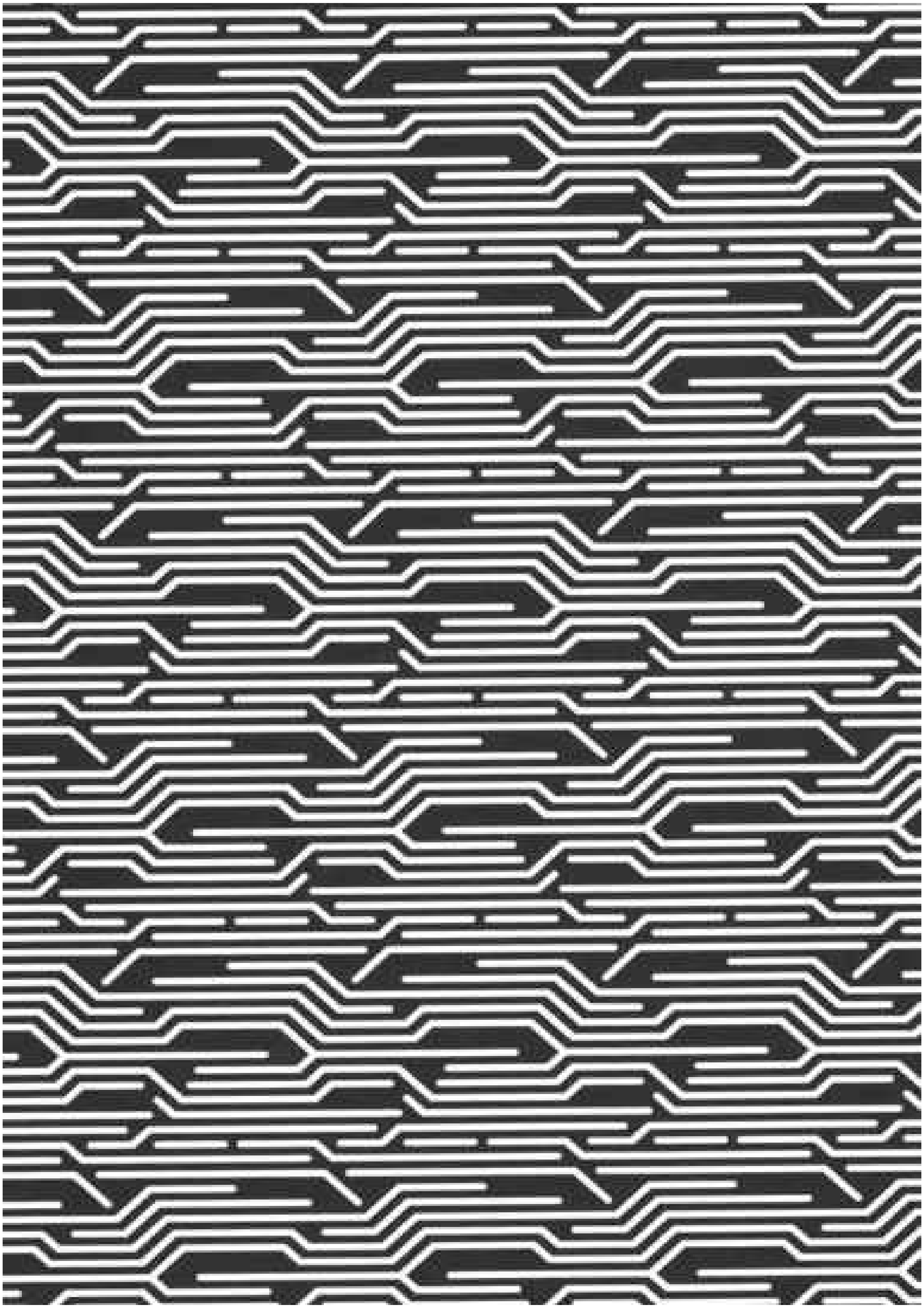
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iPad[illegible]E Ink[illegible]OLED[illegible]

[illegible]Mirasol[illegible]E Ink[illegible]——[illegible]

1801[illegible]·[illegible]Thomas Young[illegible]

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2004[illegible]9[illegible]1.7[illegible]Iridigm Display[illegible]IMOD[illegible]Interferometric Modulator[illegible]Mirasol[illegible]Mirasol[illegible]700.0[illegible]546.1[illegible]435.8[illegible]175[illegible]136[illegible]109[illegible]82[illegible]14[illegible]15[illegible]

[illegible]Mirasol[illegible]E Ink[illegible]Mirasol[illegible]1.5[illegible]1[illegible]LCD[illegible]400[illegible]1000dpi[illegible]Mirasol[illegible]50%[illegible]6%[illegible]

2008[illegible]5[illegible]Foxlink[illegible]Sollink[illegible]Mirasol[illegible]Mirasol[illegible]2008[illegible]11[illegible]C108[illegible]

[illegible]C108[illegible]1.2[illegible]2010[illegible]1[illegible]CES[illegible]5.7[illegible]Mirasol[illegible]1024×768[illegible]9.7[illegible]iPad[illegible]

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PerfectLight[illegible]

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2.5[illegible]320×240[illegible]45[illegible]75%[illegible]Mirasol[illegible]

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[illegible]IBM[illegible]4096[illegible]64[illegible]4096[illegible]16384[illegible]65536[illegible]——[illegible]

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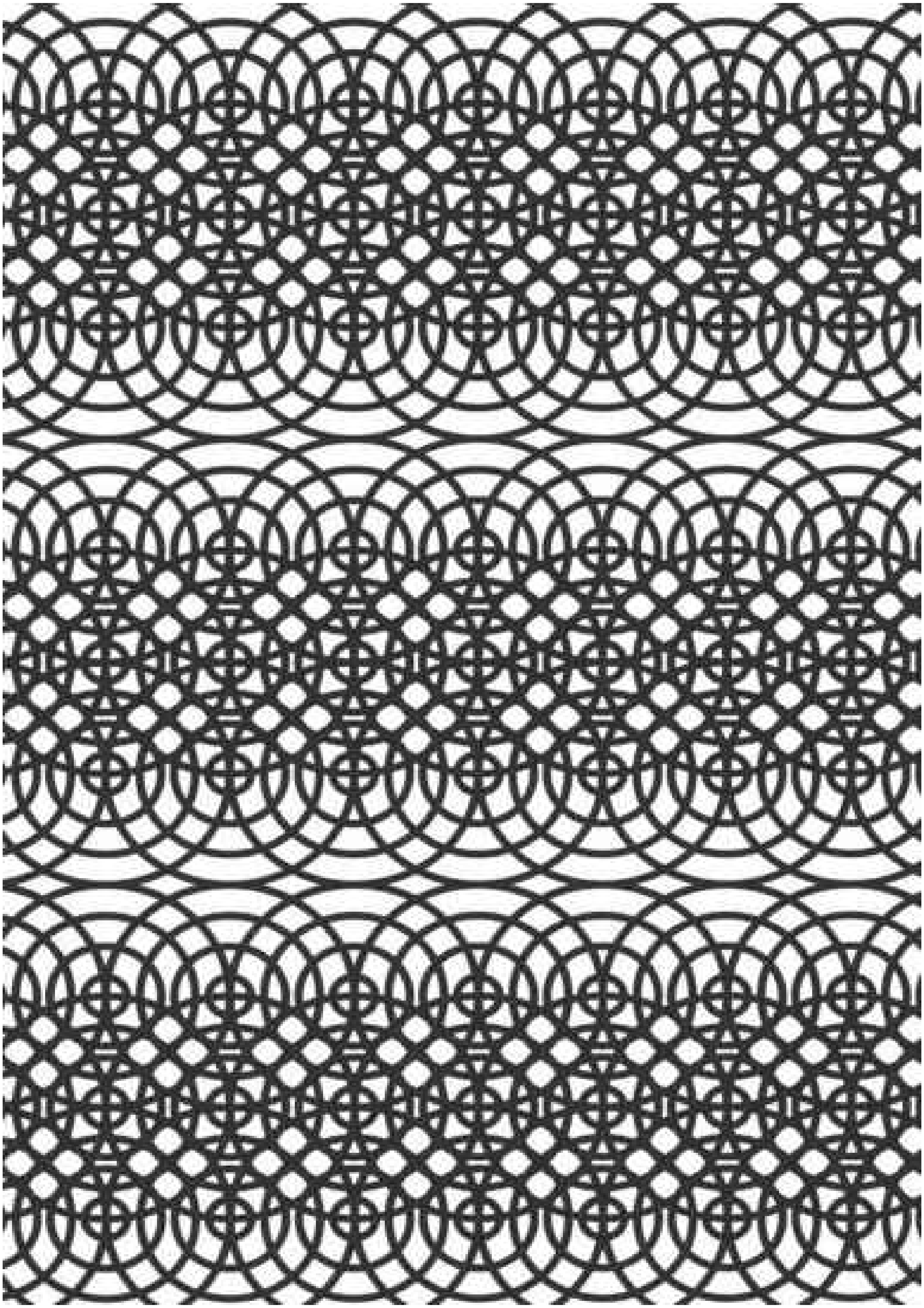
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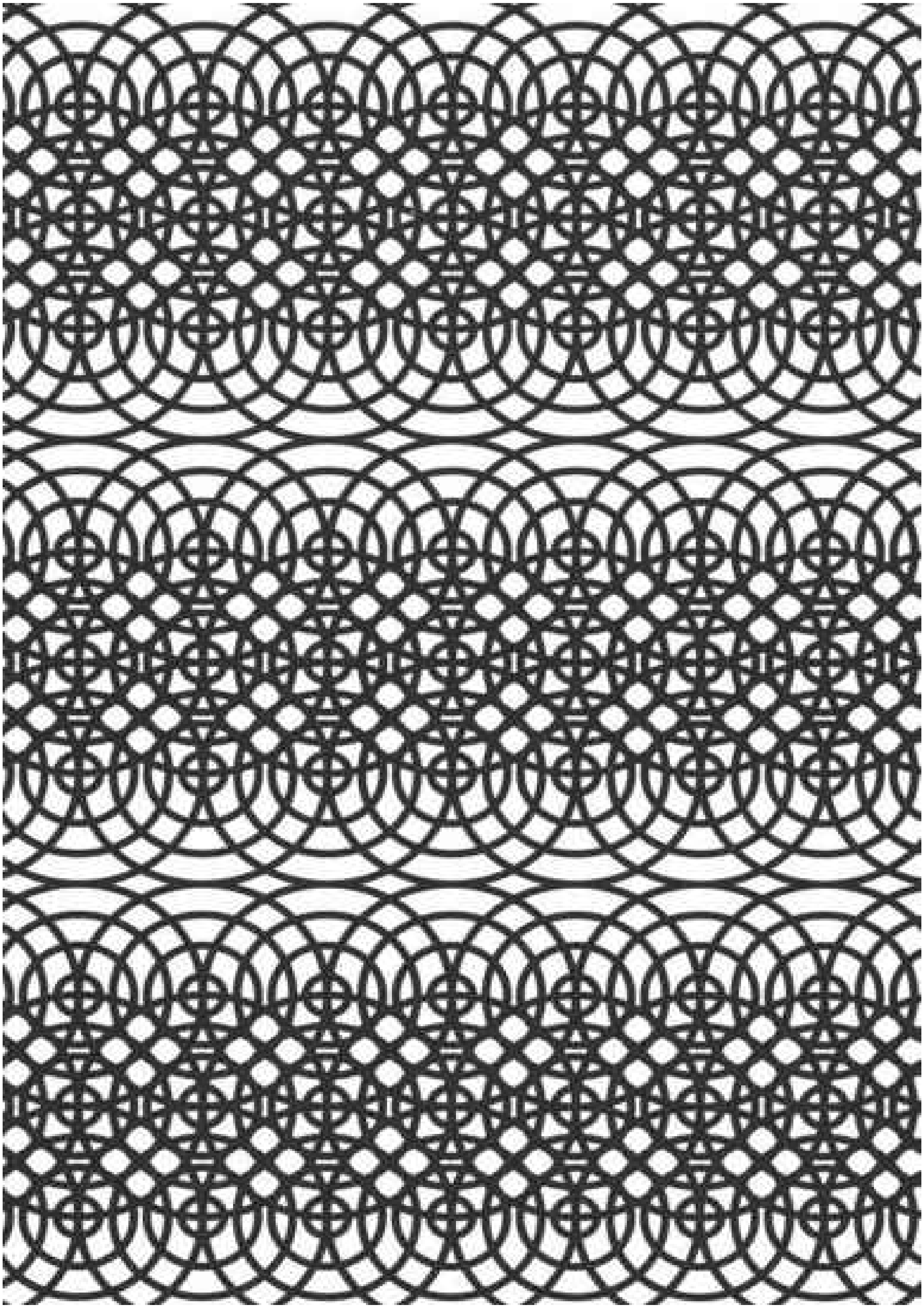
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